



#9 Anct. A  
570  
3/21/03  
CASE

PATENT  
2028-174 (81841.0143)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Mark J. Kittock and Humayun Qureshi

Serial No: 09/685,307

Filed: October 10, 2000

For: FLUID-MOVING DEVICE WITH A  
CLEARANCE SEAL

Art Unit: 3676

Examiner: Pickard, Alison K.

I hereby certify that this correspondence  
is being deposited with the United States  
Postal Service with sufficient postage as  
first class mail in an envelope addressed  
to:

Commissioner for Patents  
Washington D.C. 20231, on

March 12, 2003

Date of Deposit

Wei-Ning Yang, Reg. No. 38,690

Name

Signature

3/12/03

Date

RECEIVED

MAR 20 2003

GROUP 3600

Dear Sir:

In response to the Final Office Action dated December 17, 2002, please  
amend the above-referenced application as follows:

IN THE SPECIFICATION:

Please replace the text of the last paragraph on page 3 and the first  
paragraph on page 4 with the following text:

By eliminating a direct contact between the sealing member and the moving  
member, the present clearance seal assembly alleviates many of the problems  
associated with the conventional seals discussed above. In particular, the  
advantages of this approach include a minimal wear of the part, simplified  
assembly and maintenance, significantly improved reliability, and a decreased  
maintenance cost. The clearance seal of the present invention may be utilized in  
any device or system that requires drawing, moving, and dispensing of fluids. The  
invention may be particularly advantageous for use in high-precision pumps  
employed in analytical instrumentation. For example, a piston pump with a  
clearance seal manufactured in accordance with the present invention may be

11  
X1  
not  
36100  
3/21/03

MAR 17 2003

2028-174 (81841.0143) 3/17/03



## UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Mark J. Kittock et al.

Serial No: 09/685,307

Filed: October 10, 2000

For: FLUID-MOVING DEVICE WITH A CLEARANCE SEAL

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Transmitted herewith is an amendment in the above-identified application.

Small entity status has been claimed. See 37 CFR § 1.27.

A Notice Of Change Of Attorney's Address and Associate Power Of Attorney is enclosed.

No additional fee is required.

The fee has been calculated as shown below:

	(Col. 1) CLAIMS REMAINING AFTER AMENDMENT		(Col. 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Col. 3) PRESENT EXTRA*	LG/SM \$ ENTITY FEE		ADD'L FEE DUE
TOTAL CLAIMS FEE	11	-	20	..	0	LG=\$18 SM=\$9	[\$FEE]
INDEPENDENT CLAIMS FEE	2	-	3	...	0	LG=\$84 SM=\$42	[\$FEE]
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIMS					LARGE ENTITY FEE = \$280 SMALL ENTITY FEE = \$140		\$ [FEE]
					TOTAL		\$ 0

\* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.

\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.

\*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space. The "Highest Number Previously Paid For" (Total or Independent) is the highest number found from the equivalent box on Col. 1 of a prior amendment or the number of claims originally filed.

A check in the amount of \$ 0 to cover the additional claims fee is enclosed. **A copy of this sheet is enclosed.**

A check in the amount of \$ 0 to cover the extension fee is enclosed. **A copy of this sheet is enclosed.**

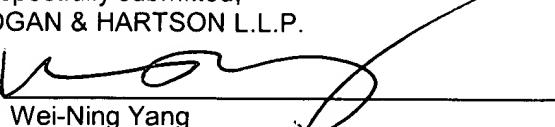
The Commissioner is hereby authorized to charge any deficiencies of fees associated with this communication or credit any overpayment to Deposit Account No. 50-1314. **A copy of this sheet is enclosed.**

Any filing fees under 37 C.F.R. § 1.16 for the presentation of extra claims

Any patent application processing fees under 37 C.F.R. § 1.17

Respectfully submitted,  
HOGAN & HARTSON L.L.P.

By


  
Wei-Ning Yang  
Registration No. 38,690  
Attorney for Applicant(s)

Date: March 12, 2003

Biltmore Tower  
500 South Grand Avenue, Suite 1900  
Los Angeles, California  
90071  
Telephone: 213 337-6700  
Facsimile: 213 337-6701

RECEIVED

MAR 20 2003

GROUP 3600